CLAIMS:

- 1. A substrate for a liquid crystal display comprising at least a transparent substrate and a columnar spacer formed on the transparent substrate, wherein the substrate for a liquid crystal display is characterized in that a following amount of an initial deformation A obtained by measuring the columnar spacer by a following measurement method is 0.04 μm or more, and a following amount of a plastic deformation B is 0.7 μm or less.
- measurement method: a compression load is applied in an axial direction of the columnar spacer up to 80 mN at a load applying speed of 22 mPa/sec and that state is maintained for 5 seconds. Thereafter, a load is removed down to 0 mN at a load removing speed of 22 mPa/sec, and that state is maintained for 5 seconds.
- amount of initial deformation A: an amount of a compression deformation obtained by X Y assuming that an initial height of the columnar spacer is X, and a height when a load F (mN) obtained by a following formula (1) is applied during an above load application is Y.

F = 19.6/n (1)

- $(10 \le n \le 50, \, n \, \text{is a density of a number of columnar} \\$ spacers (pieces/mm²)
- ullet amount of plastic deformation B: an amount of a residual deformation obtained by X Z assuming that the initial height of the columnar spacer is X and a height after removing the load and maintaining that state for 5 seconds

is Z.

- 2. The substrate for a liquid crystal display according to claim 1, characterized in that a following elastic deformation ratio C is 60% or more.
- elastic deformation ratio C: a deformation ratio obtained by $[(Z W)/(X W)] \times 100$ assuming that the initial height of the columnar spacer is X; a height after applying a load of 80 mN and maintaining for 5 seconds is W; and a height after removing the load and maintaining for 5 seconds is Z.
- 3. The substrate for a liquid crystal display according to claim 1 or 2 characterized by being used in a liquid crystal display of 17 inches or more.
- 4. A substrate for a liquid crystal display having at least a transparent substrate and a columnar spacer formed on the transparent substrate and being used in a liquid crystal display of 17 inches or more, the substrate for a liquid crystal display being characterized in that a density of a number of the columnar spacers is within a range from 15 pieces/mm² to 50 pieces/mm².
- 5. A liquid crystal display characterized by having the substrate for a liquid crystal display according to any one of claims 1 to 4.